

Edge Count Quest

Count unit segments around rectangles.

GRADE 2 • MA.2.GR.2.1

MA.2.GR.2.1 "Explore perimeter as an attribute of a figure by placing unit segments along the boundary without gaps or overlaps. Find perimeters of rectangles by counting unit segments."

NAME _____

DATE _____

COUNT THE EDGE

Perimeter is the distance around a shape. Put unit segments along every edge with no gaps or overlaps, then count them all.

WORKED EXAMPLE

A toy box is 5 units long and 6 units wide. What is its perimeter?

1. Count 5 segments on the top and 5 on the bottom.
2. Count 6 segments on each side.
3. $5 + 5 + 6 + 6 = 22$

Answer: 22 unit segments

PRACTICE 4 problems

- 1** A sticker card is 1 unit long and 2 units wide. How many unit segments are around it?

ANSWER _____

- 2** A pet photo is 2 units long and 3 units wide. What is its perimeter?

ANSWER _____

- 3** A toy label is 3 units long and 3 units wide. What is its perimeter?

ANSWER _____

- 4** A snack tray is 4 units long and 2 units wide. How many unit segments are around it?

ANSWER _____

APPLY IT Show your work

- 1** Mia makes a rectangle for her toy dinosaurs. It is 4 units long and 3 units wide. How many unit fence pieces does she need?

WORK SPACE

ANSWER _____

- 2** A game card is 1 unit long and 4 units wide. How many unit segments are around the card?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A robot screen is 4 units long and 2 units wide. Sam says the perimeter is 6 unit segments. Is Sam correct? Explain.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A sticker card is 1 unit long and 2 units wide. How many unit segments are around it?	6 unit segments
2	A pet photo is 2 units long and 3 units wide. What is its perimeter?	10 unit segments
3	A toy label is 3 units long and 3 units wide. What is its perimeter?	12 unit segments
4	A snack tray is 4 units long and 2 units wide. How many unit segments are around it?	12 unit segments

PART 2 • APPLY IT

1. **14 unit fence pieces** Count both 4-unit sides and both 3-unit sides. $4 + 4 + 3 + 3 = 14$.
2. **10 unit segments** Count all four sides. $1 + 1 + 4 + 4 = 10$.

CHALLENGE

No. The perimeter is 12 unit segments because $4 + 4 + 2 + 2 = 12$.

Accept correct totals with or without the unit label. For the challenge, accept an explanation that counts all four sides and gives 12.